200000080

No.

<u>THE UNITED STRATES OF AVIERIOA</u>

<u>TO AM TO WHOM THESE: PRESENTS SHAM, COME:</u>

Monsanto Technology KKÇ

ALCCENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPUSHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE USENT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'AG5001'

In Testimon Merror, I have hereunto set my hand and caused the seal of the Hant Unriety Protection Office to be affixed at the City of Washington, D.C. this seventeenth day of April, in the year two thousand and six.

Attost:

Ommore Commissioner

Commissioner Plant Variety Protection Office Agricultural Marketing Service retary of Agriculture

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO)ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seedeproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary treproduce the variety, or for tuber reproduced varieties verification that a viable(in the sense the will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for 3,652 (\$43 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States"(See Section 97.6 of the Regulations and Rules of Practice.) Partial application will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated DO NOT use masking materia to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$2 for issue of the certificates. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/sciencepypo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clone used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variats may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If new variety is most similar to one variety or a group of related arieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or plotographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as complete as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accuratelythe characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed) the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent No. 5,776,760. Issue Date: July 7, 1998. Assignee: Monsanto Company. Patent Application No. 484,274.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of oddress. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check thappropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability sexual orientation, marital or family stapolitical beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and

TOD). USDA is an equal opportunity provider and employer.

SF470 (U2:10-03) designed by the Plant Vanety Protection Office with Word 2000. Replaces former versions of \$470, which are obsolete.

MONSANTO TECHNOLGY LLC PVP APPLICATION – AG5001

EXHIBIT A

ORIGIN AND BREEDING HISTORY

- 1994 Final cross was made in 1994 at Galena, Maryland.
 - Parentage: CM428//A4922/AG4701
- Source of glyphosate tolerance is 40-3-2.
- 1994 F1 generation was grown at Isabela, Puerto Rico and advanced using modified pedigree selection.
- 1995 F2 generation was grown at Isabela, Puerto Rico and advanced using modified pedigree selection.
- 1995 F3 bulk populations were grown at Galena, Maryland and single plants pulled.
- 1996 F3 derived F4 plants were grown at Santa Fe, Argentina in progeny rows and variety AG5001 was selected based on agronomic characteristics, including, but not limited to, general plant health, lodging, early emergence, and general disease resistance, including resistance to PRR, SCN, BSR, SDS, stem canker, etc.
- 1996 F3:5 breeder seed was grown at Redwood Falls, Minnesota for progeny row increase and in yield tests at 3 locations in the Maryland.

Variety AG5001 was observed to be uniform and stable for the characteristics described within this application based on our observations since 1996 and, henceforth, to present. No variants were observed during this time.

Variety AG5001 has continued to be grown in yield tests at 9 locations in 1997 and 25 locations in 1998 for comparison against other varieties to determine how it would be used in our marketing program.

Monsarto Technology ASGROW SEED COMPANY LLC (81: 9/21/2004) PVP APPLICATION - AG5001 October 1999

EXHIBIT B

Novelty Statement Concerning AG5001 Soybean

To our knowledge, the soybean varieties that closely resemble AG5001 are A4922, AG4702, and AG5401:

1. Flower color	AG5001 A4922 AG4702 AG5401	PurpleWhiteWhiteWhite
2. RRTM gene (Tolerance to glyphosate herbicide) <40-3-2>(bt: 3/14/2005 per cpp hicant's authorization)	AG5001 A4922 AG4702 AG5401	PresentAbsentPresentPresent
3. Pubescence color	AG5001 A4922 AG4702 AG5401	Light Tawny (td gene)TawnyTawnyGray
4. PRR resistance (Tolerance to Phytophthora Root Rot) Resistant JLS, April 22, 2005 By Permission of the Applicant.	AG5001 A4922 AG4702 AG5401	- Rps1a - rps - rps - rps

REPRODUCE LOCALLY. Include form number and date on all reproductions

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is extimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Venter at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

1							
	APPLICANT(S)				FOR OFFICIAL USE ONLY		
N(OVIS	anto Techn	pology LLC (E	TER (allows)		PVPO 2 0 0 0 0 0 8 0		
1	(Street and No., or R.F.)	• • • • • • • • • • • • • • • • • • • •	Zip Code)		VARIETY NAME		
	S.E. Conveni				AG5001		
634 East Lincoln Way P.O. Box 3010			TEMPORARY DESIGNATION				
/80° 9/2	Ames IA 50010 'Ankeny, IA 50021 (BT: 9/21/2004)			AGM52802			
		TIONS CAREFULL	Y: Place the appropri	ate number that desc	cribes the varietal character of this variety in the boxes below. Plac		
a zero in the	first box (e.g. $\Box\Box$	or $\square\square$) when i	number is either 99 o	r less 9 or less respe	ctively. Data for quantitative plant characters should be based on		
minimum of	100 plants. Compar y be used to determ	rative data should be	determined from va	crieties entered in th	e same trial. Royal Horticultural Society or any recognized col-		
	er all questions for y				plication.		
A MOD	DITOLOGY		· · · · · · · · · · · · · · · · · · ·				
A. MUK	PHOLOGY						
Seed Shap	e:						
	1 =	Spherical		2 = Spherical Flattened			
2	(L/	W, L/T, and T/W	/ ratios - <1.2)	(L/W ratio	>1.2; L/T ratio = <1.2)		
	3 =	Elongate		4 = Elongat	te-Flattened		
	(L/	T ratio > 1.2; T/W	= <1.2)	(L/T ratio >	1.2; T/W >1.2)		
Seed Coat	Color:						
1	1= Yellow	2= Green	3= Brown	4= Black	5= Other		
<u></u>					(Please Specify)		
Seed Coat	Luster:						
1	1= Dull	2= Shiny					
		- 2mm					
Seed Size:							
1 7	grams/100 s	seeds					
	9						
Hilum Col	or:						
6	1= Buff	2= Yellow	3= Brown	4= Gray	5= Imperfect Black		
	6= Black	7= Other (<i>Pl</i>	ease Specify)	•	-		
Cotulada-			openy,				
Cotyledon	Calat:						
1	1 = Yellow	2 = Green					

A. MORPHOLOGY Continued)

Seed Protei	ı Peroxidase	Activity:
-------------	--------------	-----------

1 = Low

2 = High

Hypocotyl Color:

1 = Green

2 = Green with Bronze 3 = Light Purple

Evans' or 'Davis' Bands below Cotyledon below Cotyledons Woodworth'or'Tracy'

'Beeson'or'Pickett71'

4 = Dark Purpleextending to unifoliate leaves (Hodgson', 'Coker',or'Hampton266A')

Leaf Shape:

3

1 = Lanceolate 2 = Oval

3 = Ovate

4 = Other (*Please Specify*)

Flower Color:

2

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

1857: 10/13/2004 perapplicant's authorization)

Plant Habit:

3

1= Determinate 2= Semi-Determinate

3= Indeterminate

4 = Intermediate

B. DISEASE REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dve)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye &Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye &Wilkie)

Fungal

Brown Spot (Septoria glycines Hemmi)

Frogeye Leafspot (Cercospora sojina)

race 1

race 2

race 3

race 4

race 5

race 6

0

Other (Please Specify)

Target Spot (Corynespora cassiicola (Berk. & Curt.)Wei)

Downy Mildew (Peronospora trifoliorum var. manshurica (Naum.) Syd. Ex Gaum)

3 = Tolerant

0	Powdery	Mildew (M	licrosphaera diffusa Cl	ke. & Pk.)			
0	Brown Stem Rot (Phialophora gregata (Allington & Chamberlain) W. Gams.)						
0	Stem Can	ker (<i>Diapa</i>	orthe phaseolorum (Ck	e. & Ell.)Sa	acc. var. caulivora Athow	& Caldwel	1)
0	Pod and S	Stem Blight	: (Diaporthe phaseolori	ım (Cke. &	Ell.)Sacc. var. <i>sojae</i> (Lel	ıman) Weh	m.)
0	Purple Se	ed Stain (<i>C</i>	Cercospora kikuchii (T.	Matsu. & 7	Tomoyasu) Gardener)		
0	Rhizocton	ia Root rot	(Rhizoctonia solani K	uhn)			
Phytop	ohthora Rot (<i>Phyto</i>	phthora me	<i>gasperma</i> Drechs. f. s _l	o.glycinea (1	Kuan & Erwin))		
2	race 1	1	race 8	2	race 15	1	race 22
2	race 2	1	race 9	2	race 16	1	race 23
1	race 3	2	race 10	2	race 17	2	race 24
1	race 4	2	race 11	2	race 18	1	race 25
1	race 5	1	race 12	1	race 19	0	race 26
1	race 6	2	race 13	1	race 20	0	race 27
1	race 7	2	race 14	1	race 21		Other (<i>Please</i> Specify)
0	Bud Blight	t (Tobacco	Ringspot Virus)				
0	Yellow Mo	saic (Bear	1 Yellow Mosaic Virus	s)			
0	Cowpea M	osaic (Cow	pea Chlorotic Virus)				
0	Pod Mottle	e (Bean Po	d Mottle Virus)				
0	Seed Mottl	e (Soybear	n Mosaic Virus)				
Nemate	ode						
Soybean Cyst Nematode (Heterodera glycines Ichinohe)							
0	race 1	1	race 3	0	race 6	1	race 14 (former r. 4)
0	race 2	0	race 5	0	race 9		Other (Please
Decify)							
Southern Root Knot Nematode (Meloidogyne incognita (Kofoid & White)Chitwood)							
0	Northern Root Knot Nematode (Meloidogyne hapla Chitwood)						

0 = Not Tested 1 = Susceptible 2 = Resistant

B. DISEASE REACTIONS Continued)

	SE REACTIONS Continued)	0 = Not Tested	1 = Susceptible	2 = Resistant	$2 \cup 0 \cup 0 \cup 0 \otimes 3 = Tolerant$	
0	Peanut Root Knot Nematode (Ma	eloidogyne arenari	a (Neal) Chitwood	d)		
0	Reniform Nematode (Rotylenchu	lus reniformis Lin	wood & Olivera)			
0	Javanese Nematode (Meloidogyn	e javanica (Treud)	Chitwood)			
	Other Nematode (Please Specify)					
C. PHYSIC	DLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	es.
0	Iron Chlorosis on Calcareous Soi	I				
0	Phosphorus					
0	Boren					
0	Aluminum					
0	Salt					
0	Drought					
	Other (Please Specify)					
D. INSECT	REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Mexican Bean Beetle (Epilachna	varivestis Mulsant)	•			
0	Potato Leaf Hopper (Empoasca fa	bae (Harris))				
	Other (Please Specify)		···			
E. HERBIC	Other (Please Specify)		1 = Susceptible	2 = Resistant		
E. HERBIC				2 = Resistant		
	IDE REACTIONS			2 = Resistant		
2	IDE REACTIONS Metribuzin			2 = Resistant		
0	IDE REACTIONS Metribuzin Bentazone			2 = Resistant		
0	IDE REACTIONS Metribuzin Bentazone Sulfonylurea			2 = Resistant		
2 0 1 2	IDE REACTIONS Metribuzin Bentazone Sulfonylurea Glyphosate			2 = Resistant		
2 0 1 2 1	IDE REACTIONS Metribuzin Bentazone Sulfonylurea Glyphosate Glufosinate			2 = Resistant		
2 0 1 2 1 0	IDE REACTIONS Metribuzin Bentazone Sulfonylurea Glyphosate Glufosinate Pendimethalin			2 = Resistant		
2 0 1 2 1 0 F. TRANSG	IDE REACTIONS Metribuzin Bentazone Sulfonylurea Glyphosate Glufosinate Pendimethalin Other (<i>Please Specify</i>)	0 = Not Tested	1 = Susceptible		Yes X No	

F. TRANSGENIC COMPOSITION(Continued)

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the Subject Variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Sim Sequence Repeats, Random Fragment LengthPolymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

20000080

(Br. 9/21/2001) Monsanto Technology ASGROW SEED COMPANY LLC PVP APPLICATION - AG5001 October 1999

EXHIBIT D

Additional Description of AG5001 Soybean

AG5001is a early maturity group V variety with resistance to Roundup the herbicide. It has superior yields to lines of similar maturity and has excellent agronomic characteristics. In tests, it has beaten AG5001would be grown in the early Group V growing areas of the southern corn belt, including Illinois, Missouri, Mississippi, Arkansas, Tennessee, Maryland, and North Carolina. It has only average appearance.

REPRODUCE LOCALLY. Include form number and edition date on all reproduc	tions.	FORM APPROVED - OMB No. 0581-0058		
U.S. DEPARTMENT OF AGRICULTURE				
AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held			
EXHIBIT E	confidential until the certificate is issu	led (7 U.S.C. 2426).		
STATEMENT OF THE BASIS OF OWNERSHIP				
1. NAME OF APPLICANT(S)	TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME		
Monsanto Technology LLC	AGM52802	AG5001		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 3302 S.E. Convenience Blvd. P.O. Box 3010	5. TELEPHONE (Include area code) (515) 965-3022	6. FAX (Include area code) (515) 965-3001		
Ankeny, IA 50021	7. PVPO NUMBER 2 0 0 (000080		
Does the applicant own all rights to the variety? Mark an "X" in t Is the applicant (individual or company) a U.S. National or a U.S.				
10. Is the applicant the original owner?	NO If no, please answer one of	f the following:		
b. If the original rights to variety were owned by a company(ies	NO If no, give name of country), is (are) the original owner(s) a U.S. ba NO If no, give name of country	sed company? y		
11. Additional explanation on ownership (Trace ownership from origi	inal breeder to current owner. Use the re	everse for extra space if needed):		
PLEASE NOTE:				
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:			
 If the rights to the variety are owned by the original breeder, that p national of a country which affords similar protection to nationals of 	person must be a U.S. national, national of the U.S. for the same genus and speci	of a UPOV member country, or les.		
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.	yed the original breeder(s), the company country which affords similar protection t	r must be U.S. based, owned by to nationals of the U.S. for the same		
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who di Act for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an agency may no conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information collec-	tion is estimated to average 0 1bour per response		
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and a	ctivities on the basis of race, color, national origin, and	nder religion age disability sevual orientation		

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or familial status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

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Monsanto Technology ASGROW SEED COMPANY LLC (BT: 9/21/2004) PVP APPLICATION - AG5001 October 1999

EXHIBIT E

Statement of Basis of Applicant Ownership

AG5001 was originated and developed by Dr. Bruce Luzzi, an Asgrow soybean breeder. By agreement with Asgrow Seed Company LEC, all rights to any invention, discovery or development made by employees are assigned to the company. No rights of such invention, discovery or development are returned to the employee.